APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/714,696	11/17/2003	Jon Beecroft	SHP-PT079	5383

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VOLPE AND KOENIG, P.C.
UNITED PLAZA, SUITE 1600
30 SOUTH 17TH STREET
PHILADELPHIA, PA 19103

EXAMINER
OSMAN, RAMY M

ART UNIT	PAPER NUMBER
2157	

MAIL DATE	DELIVERY MODE
06/23/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)
	10/714,696	BEECROFT ET AL.
	Examiner	Art Unit
	RAMY M. OSMAN	2157

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *13 November 2007 and 25 February 2008*.

2a)☒ This action is **FINAL**.   2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-21* is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-21* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *13 November 2007* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All   b)☐ Some * c)☐ None of:

        1.☐ Certified copies of the priority documents have been received.

        2.☐ Certified copies of the priority documents have been received in Application No. _____.

        3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☐ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
    Paper No(s)/Mail Date _____.

4) ☐ Interview Summary (PTO-413)
    Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

DETAILED ACTION

Status of Claims

1.   This action is responsive to amendment filed on November 13, 2007 where Applicant

amended claims 1,9,17-21. Claims 1-21 are pending.

Response to Arguments

2.   The previous objections to the claims and drawings are withdrawn.

3.   Applicant's arguments filed 11/13/2007 have been fully considered but they are not

persuasive.

4.   Applicant argues that Blightman does not teach assigning memory space in the DMA

command queue to a specific user process.

        In reply, Applicants claim language is broad and is thus broadly interpreted. Applicants

use of "user process" is broad. Blightman does teach where a command (i.e. user process) is

exclusively assigned to a space in the DMA queue (column 4 line 35 – column 5 line 35). The

claim language is silent regarding details of the program/user process that Applicant is arguing.

Claim Rejections - 35 USC § 102

5.   The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the

basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed
> in the United States before the invention by the applicant for patent or (2) a patent granted on an application for
> patent by another filed in the United States before the invention by the applicant for patent, except that an
> international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this
> subsection of an application filed in the United States only if the international application designated the United
> States and was published under Article 21(2) of such treaty in the English language.

6.   Claims 1-21 rejected under 35 U.S.C. 102(e) as being anticipated by Blightman et al

(US Patent No 7,133,940).

7.   In reference to claim 1, Blightman teaches a computer network comprising:

at least two processing nodes each having a processor on which one or more user

processes are executed and a respective network interface (column 4 lines 14-41); and

a switching network which operatively connects the at least two processing nodes

together, each network interface including a command processor and an addressable memory

wherein the command processor of said network interface is configured to allocate to a user

process the exclusive right to one or more segments of the addressable memory in said network

interface as one or more command queues mapped by said network interface to said allocated

addressable memory (column 4 line 56 – column 5 line 10).

8.   In reference to claim 2, Blightman teaches a computer network as claimed in claim 1,

wherein each one of said memory segments allocated as command queues is a contiguous series

of memory addresses (column 5 lines 1-25).

9.   In reference to claim 3, Blightman teaches a computer network as claimed in claim 1,

wherein each memory segment of the network interface memory allocated as a command queue

has associated with it a queue descriptor which includes a user process identification (column 5

lines 35-65).

10.   In reference to claim 4, Blightman teaches a computer network as claimed in claim 3,

wherein each queue descriptor includes an insert pointer identifying within the allocated memory

segment the memory address where new commands from the relevant user process are to be

written (column 5 lines 35-65).

11.   In reference to claim 5, Blightman teaches a computer network as claimed in claim 3, wherein each queue descriptor includes a completed pointer identifying within the allocated memory segment the memory address of the end of the most recent completed command (column 5 lines 35-65).

12.   In reference to claim 6, Blightman teaches a computer network as claimed in claim 1, wherein the network interface includes a scheduler configured to Identify and schedule any active command queues in th network interface memory (column 6 lines 7-33).

13.   In reference to claim 7, Blightman teaches a computer network as claimed in claim 6, wherein the scheduler has two or more run queues with at least on of the run queues being denominated a high priority run queue and at least one other of the run queues being denominated a low priority queue (column 7 lines 1-27).

14.   In reference to claim 8, Blightman teaches a computer network as claimed in claim 1, wherein said network interface includes at least one of the following resources: a thread processor, short transaction engine and a DMA engine, and each command queue stored in said network interface memory has associated with it a corresponding one or more virtual resources (column 4 line 56 – column 5 line 25).

15.   In reference to claims 9-16, claims 9-16 are network interface claims that correspond to the computer network claims of claims 1-8. Therefore, claims 9-16 are rejected based upon the same rationale as the rejections of claims 1-8.

16.   In reference to claims 17-21, claims 17-21 are method claims that correspond to the computer network claims of claims 1-8. Therefore, claims 17-21 are rejected based upon the same rationale as the rejections of claims 1-8.

Conclusion

17.   **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time

policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

MONTHS of the mailing date of this final action and the advisory action is not mailed until after

the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the mailing

date of this final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to RAMY M. OSMAN whose telephone number is (571)272-4008.

The examiner can normally be reached on M-F 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Ario Etienne can be reached on (571) 272-4001. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/RMO/
June 13, 2008

/Ario Etienne/

Supervisory Patent Examiner, Art Unit 2157